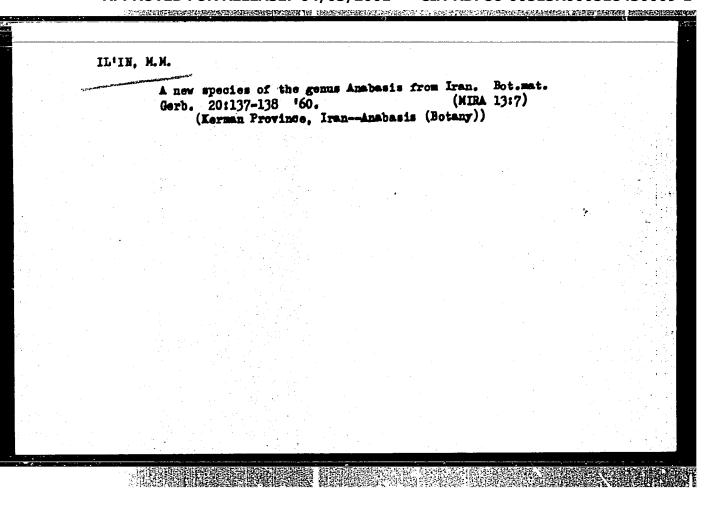
A CONTRACT STATE OF THE PROPERTY OF THE PROPER

VASIL'YEV, Viktor Nikolayevich; IL'IN, M.M., prof., doktor biolog.nauk, otv.red.; VIKHREV, S.D., red.; Ted.; BOCHEVER, V.T., tekhn.red.

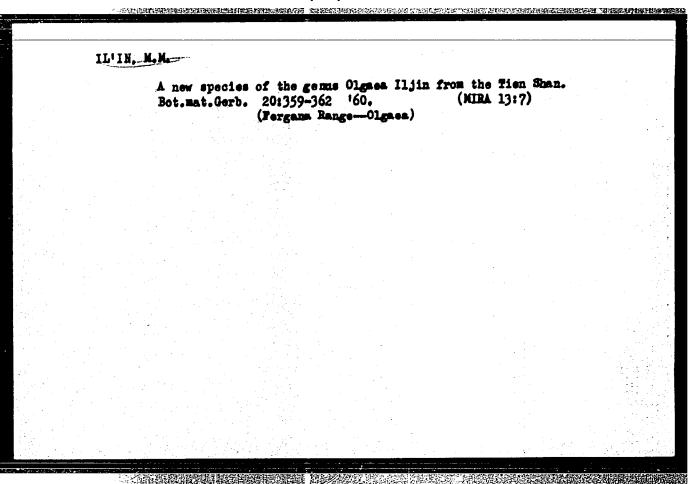
[Vater chestnut and outlook for its cultivation in the U.S.S.R.]
Vodianci crakh i perspektivy ego kul'tury v SSSR. Moskva, Isd-vo
Akad.nsuk SSSR, 1960. 99 p.

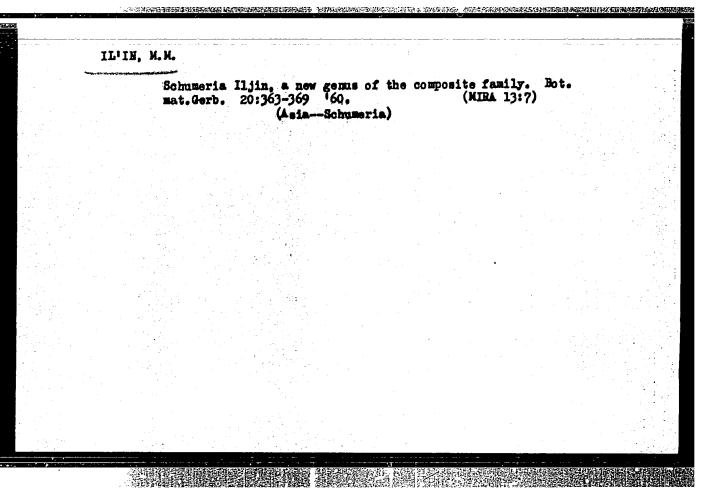
(Water chestnut)



IL'IH, M.M.

Hikitinia, a new genus of the composite family. Bot.mat.
Gerb. 20:356-358 '60. (MIRA 13:7)
(Kopet Dagh—Hikitinia)





AFANAS YEV, K.S.; BOCHANTSEV, V.P.; VASIL'CHENKO, I.T.; GORSHKOVA, S.G.;

IL'IN. M.M.; KIRPICHNIKOV, M.E.; KNORRING, O.E.; KUPRIYANOVA, L.A.;

POHEDIMOVA, Ye.G.; POLYAKOV, P.P.; POYARKOVA, A.I.; SMOL'YANIHOVA, L.A.;

FEDOROV, An.A.; TSVETKOVA, L.I.; TSVELEV, N.N.; SHISHKIH, B.K.;

KOMAROV, V.L., akademik, glavnyy red.; BOHROV, red.toma; SHISHKIN, B.K.;

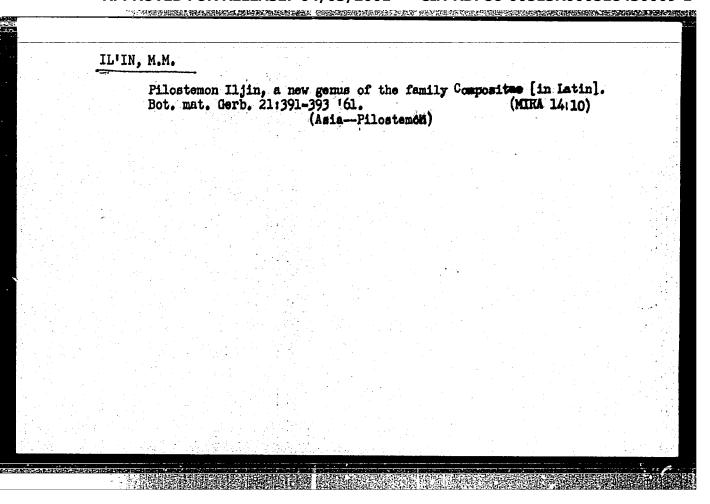
red.izd.; SMIHNOVA, A.V., tekhn.red.

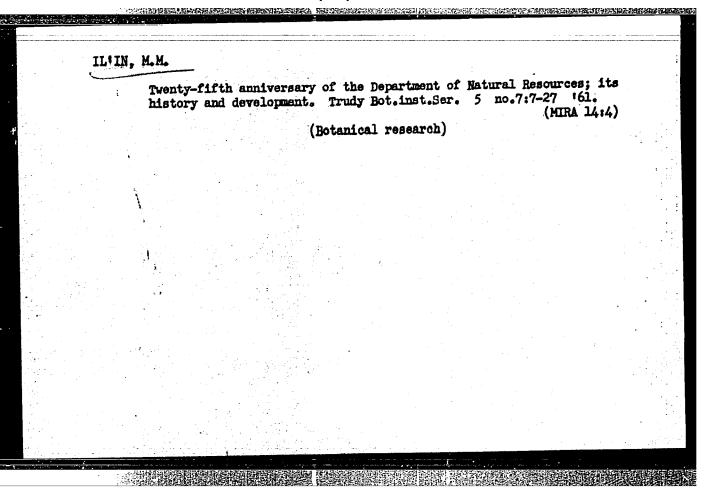
[Flora of the U.S.S.R.] Flora SSSR. Hoskva, Isd-vo Akad.nauk SSSR. 1961. 938 p. (Flora SSSR, vol. 26). (MIRA 15:2)

1. Chlen-korrespondent AN SSSR (for Shishkin). (Compositae)

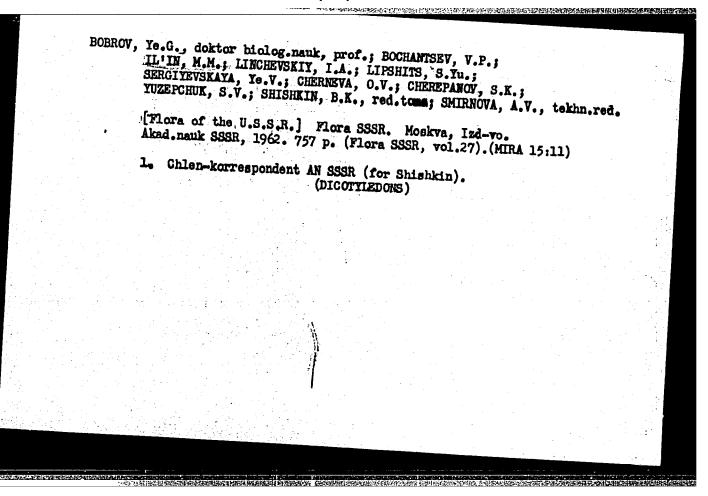
New Jurinea species from the mountains of Central Asia. Bot. mat. Gerb. 21:382-390 '61. (NIRA 14:10)

(Tien shan--Jurinea)





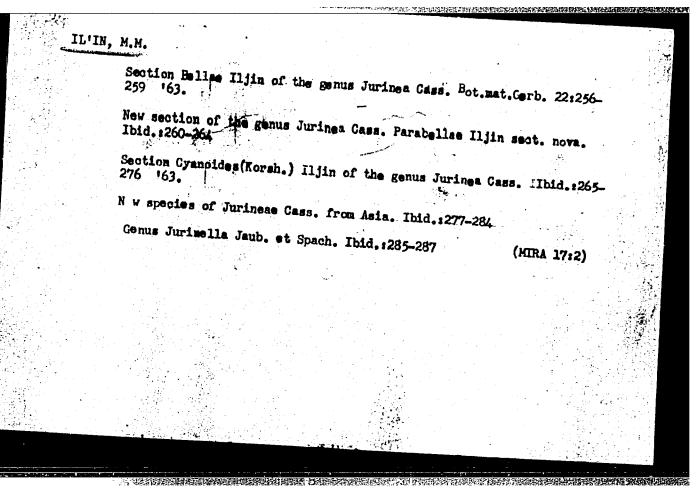
## IL'IN, M.M. On the 70th birthday and 35th anniverpary of scientific activities of Viktor Nikolaevich Vasil'ev. Bot. abur. 46 no.12:1842-1846 D '61. 1. Botanicheskiy institut imeni V.L. Komarova AN SSSR, Leningrad. (Vasil'ev, Viktor Nikolaevich, 1890-)



BOLOTINA, F.Ye.; GAMBARYAN, Kh.P.; DENISOVA, G.A.; DUBROVINA, L.I.; KOZHINA, I.S.; KYURKCHAN, V.N.; MAKAROVA, T.I.; PAVLOVA, U.G.; REZVETSOV, O.A.; SMIRNOVA, V.V.; SURZHIN, S.N., kand. tekhn. nauk; TAMAMSHYAN, S.G.; TRUSOVA, S.A.; FILOGRIYEVSKAYA, Z.D.; CHINENOVA, E.G.; SHISHKINA, N.N.; IL!IN, M.M., Zasl. deyatel! nauki RSFSR, doktor biol. nauk prof., red.; PRITYKINA, L.A., red.; ZARSHCHIKOVA, L.N.,

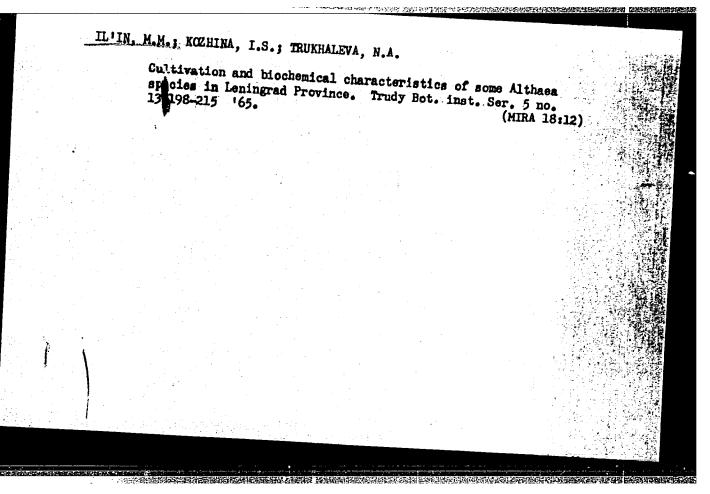
[Spice and aromatic plants of the U.S.S.R. and their use in the food industry] Priano-aromaticheskie rasteniia SSSR i ikh ispol'zovanie v pishchevoi promyshlennosti. Moskva, Pishchepromizdat, 1963. 430 p. (MIRA 17:2)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000518430009-1"



ZAGAYEVSKIY, I.S., prof.; MKRKUSHEY, A.V., prof.; IL'IN, M.M., assistent
TRUSOV, S.I., prof.; KOROPOV, V.M., prof.

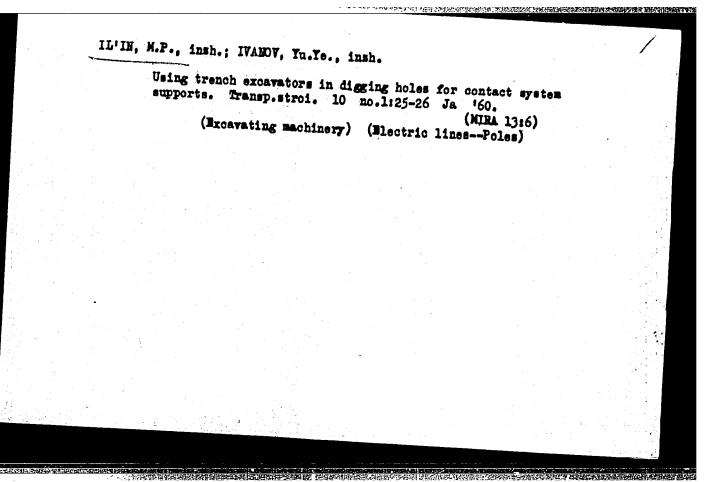
Reviews and bibliography. Veterinariia 39 no.5:85-88 My 162
(MIRA 18:1)



BORISOVA, A.G.; IL'IN. M.M.; KIOKOV, M.V.; LINCHEVSKIY, I.A.; POBEDIMOVA, Ye.G.; SEMIDEL, G.L.; SOSKOV, Yu.D.; SOSNOVSKIY, D.I.; TAMAMSHTAN, S.G.; KHARADZE, A.L.; TSVELEV, N.N.; CHEREPÁNOV, S.K.; SHOSTAKOVSKIY, S.A.; BOEROV, Ye.G., doktor biol. nauk, prof., red. toma; SHISHKIN, B.K., red. izd. [deceased]; SMIRNOVA, A.V., tekhn. red.

[Tribes Cynareae and Mutisieae.] Kolena Cynareae i Mutisieae. Moskva, 1963. 653 p. (Akademiia nauk SSSR. Botanicheskii institut. Flora SSSR, vol.28).

(MIRA 16:12)



IL'IN, M. P. - "On the poblem of the fat content of milk under partial nursing of calves", Trudy Buryat-Mongol. opyt. stantsii po zhivotnovodstvu, Issue 1, 1949, p. 69-72.

So: U-4631, 16 Sept. 53, (Lotopis 'Zhurnal 'nykh Statey, No 24, 1949).

IL'IN, M. P.

Vakhrushev, N. S. and Il'in, W. P. - "Pattening of steers during the winter period", Trudy Buryat-Monvol. opyt. stantsii po zhivotnovodstvu, Issue 1, 1949, p. 73-c4.

SO: U-4631, 16 Sept. 53, (Letopis 'zhurnal 'nykh Statey, No. 24, 1949).

### "APPROVED FOR RELEASE: 04/03/2001 C

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ILTIN, M. S.

New upswing in Soviet rail transport. (The Railway review, Sept. 30, 1949, no. 3708, DBRE

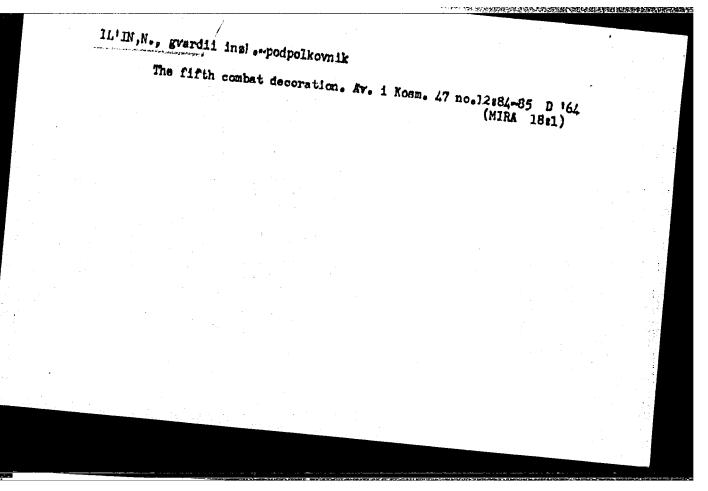
DLC: TF1.R4

SO: Soviet Transportation and Communications, ABBibliography, Library of Congress Reference Department, Washington, 1952, Unclassified.

APPROVED FOR RELEASE: 04/03/2001

MEL'NIKOV, N.V.; SLEDZYUK, P.Ye.; ZAV'YALOV, S.S.; BUNIN, A.I.;
VASIL'YEV, M.V.; NOVOZHILOV, M.G.; ZURKOV, P.E.; IL'IN, M.V.;
VILESOV, G.I.; POPOV, S.I.; SANDRIGAYLO, N.F.; SHILIN, A.N.;
ZUERILOV, L.Ye.; TSIMBALENKO, L.N.; VLOKH, N.P.; OMEL'CHENKO, A.N.

Mikhail Lazarevich Rudakov, 1912-1964; an obituary. Gor. zhur. no.9:78 S '64. (MIRA 17:12)

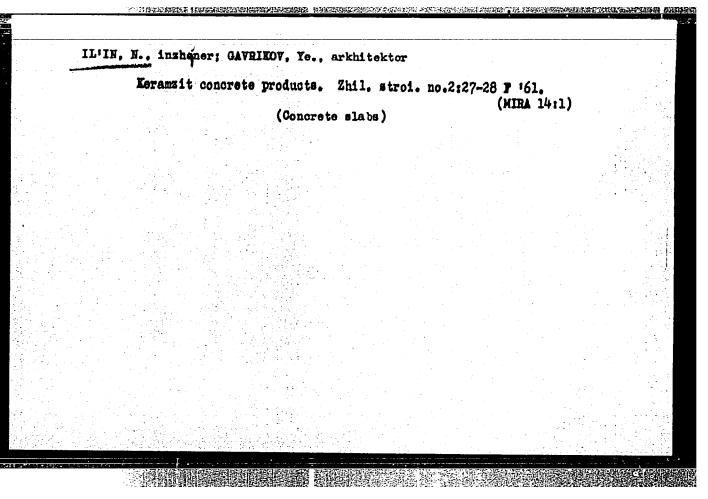


NOBORU	YAGISITA (	Japoniya); IL	IN. Ne. [translate-1	
÷	YAGISITA (Japoniya); IL'IN, N. [translator]  Vegetative hybridization of red pepper. Agrobiologica no.6:886-893  (Pepper) (Grafting) (MIRA 13:12)			
•		(Pepper)	(Grafting)	(MIRA 13:12)
•				
				-

### LYUNGGREN, G. [Ljunggren, G.]; IL'IN, N. [translator]

Transformation of clover module bacteria. Agrobiologiia no.6: 814-816 N-D '62. (MIRA 16:1)

1. Rotamstedskaya opytnaya stantsiya, Otdel pochvennoy mikrobiologii, Institut mikrobiologii Korolevskogo sel'skokhosyaystvennogo kolledsha Uppsala. (Clover) (Rhisobium trifolii) (Variation (Biology))

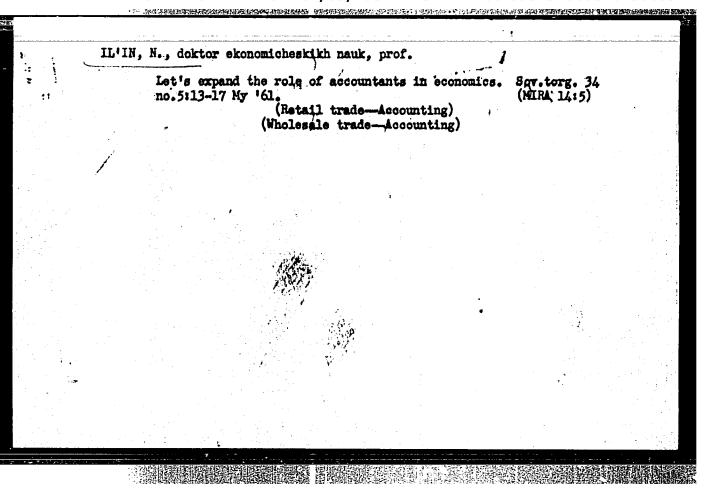


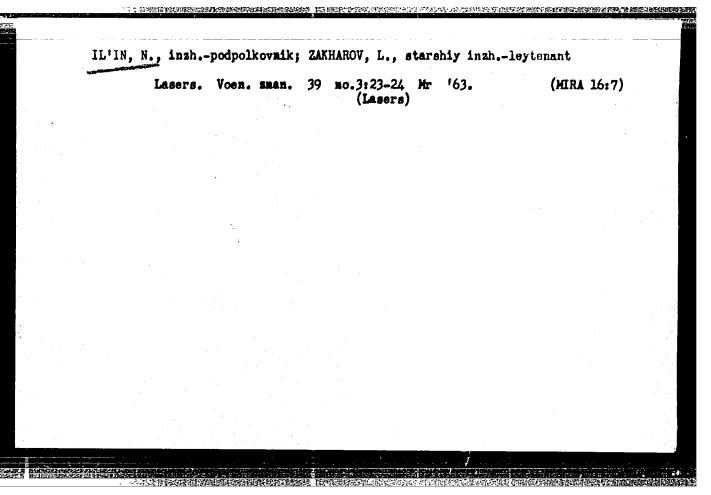
IL'IN, N.; YEL'FIMOVA, Ye.; FIKS, L.

Simplify the financing of planning and surveying work. Fin. SSSR 22 no.1:73-76 Ja '61. (MIRA 14:1)

1. Nachal'nik otdela L'vovskogo otdeleniya Teploelektroproykt (for Il'in). 2. Nachal'nik otdela L'vovskoy oblastnoy kontory Stroybanka (for Yel'fimova). 3. Starshiy inshener-ekonomist Ciprobuma (for Fiks).

(Architecture—Designs and plans)
(Lvov Province—Electric power stations—Finance)





## IL'IN, N., inshener. Transformer substations in elevators and flour mills. Muk.elev.prom. 20 no.4:8-9 mp '54. (NIMA 7:7) 1. Gosudarstvennyy institut Promsernoprojekt. (Grain elevators) (Flour mills) (Electric substations)

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· 心态,这种是中国的企业是中国的基础的有工程的使工程和各种的企业。但是是一个企业的企业的企业,但是不是一个企业的企业,但是是一个企业的企业,但是一个企业的企业的

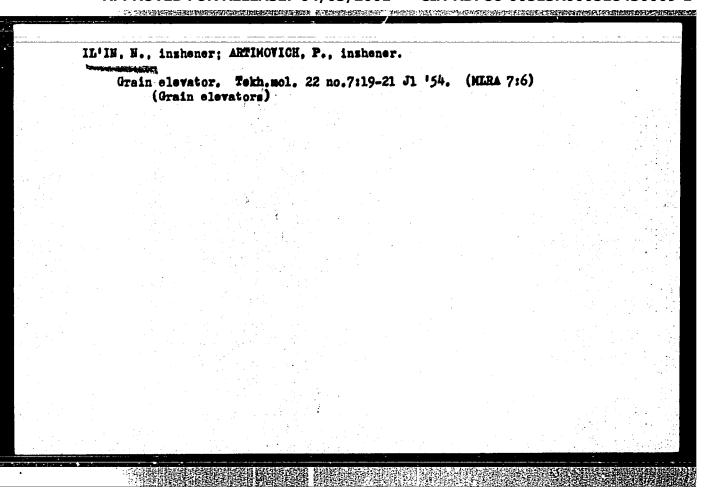
OVCHINNIKOV, P., inshener; IL'IN, E., inshener; KASHCHEYEV, I., inshener.

Central control of operations and remote control of machinery in ele-

vators. Muk.-elev.pros. 20 no.10:4-6 0 '54. (MLRA 7:12)

1. Gosudarstvennyy institut Prossernoproyekt (for Kashcheyev, Ovchinnikov & Il'in)

(Grain handling) (Automatic control)



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IL'IN, N., immhemer.

Lightning reds for flour mills, grain elevators and grain procurement points. Muk.-elev.prom. 22 no.2:10-12 F 156. (MEA 9:6)

1.Gosudarstvennyy institut Premsernoproyekt.
(Lightning protection)

ASTAKHOV, P., inzhener; O'CHINHIKOV, P., inzhener; IL'IN, N., inzhener;
ARTIMOVICH, P., inzhener.

Elevator with automatic control. Muk.-elev.prom. 23 no.7:4-8 J1 '57.

(MLRA 10:9)

1. Moskovskiy mel'nichnyy kombinat No. 4 (for Astakhov).

2. Promzernooroyekt (for I1'in, Ovchinnikov, Artimovich).

(Orain elevators) (Ovchinnikov, P., inshener)

OVCHINNIKOV, P., insh.; IL'IN, N., insh.; ARTIMOVICH, P., insh.

Automatically centrelled pneumatic equipment for unleading grain from garges at the Mo.4 Milling Cembine in Moscow. Muk.-elev. prem. 24 ne.10:4-6 0 '58.

1.0idrelegicheskiy institut (GI) Promsernopreyekt.

(Mescow-Grain-handling machinery)

(Pneumatic-tube transpertation)

# Modernized distribution control boards. Muk.-elev. prom. 29 no.8:15-17 Ag '63. (MIRA 17:1) 1. Gosudarstvennyy institut Promzernoproyekt.

IL'IN, N.; MITROFANOV, N.

Aerial sniper. Kryl. rod. 15 no.11:12-13 N '64.

(MIRA 18:3)

POPKOV, V., dvazhdy Geroy Sovetskogo Soyuza, gvardii general-mayor aviatsii;
IL'IN, N., gvardii podpolkovnik Meeting in the air. Grazhd. av. 21 no.7:10 J1 164.

(MIRA 18:4)

THE CHARLEST AND THE STREET STREET, ST 20669-66 ENT(m)/ENP(t)/ENP(k) ACC NR: AP6005770 IJP(a) JD/HJ SOURCE CORE: UR/0403/65/000/009/0014/0015 Il'in, N. (Senior engineering methodologist of the pavilion of Metallurgy) ORG: none 68 TITLE: Shown for the first time at the VINKh -- Vacuum-Helted Metals [New Exhibits at the All-Union Exposition of Achievements of the USSR National Economy] SOURCE: VDNKh SSSR. Informatsionyy byulleten', no. 9, 1965, 14-15 TOPIC TAGS: refractory metal, rare metal, electron beam melting, metal rolling, vacuum furnace, arc furnace, metallurgic research, scientific research ABSTRACT: A new exhibit section has been opened in the Metallurgy Pavilion. Various tubes, rods, templates, strip, wire, foil and other products fabricated from vacuummelted refractory and rare metals are being demonstrated for the first time. The applicability and advantages of refractory and rare metals such as W, Ho, Ti, Zr, Mb, Ta, V, Re, and others, are pointed out. For example, in metalworking the replacement of ordinary steel with tungsten accels increases the machining rate tenfold, while the introduction of the carbides of W and Ti increases this rate by a factor of 200. Without the use of these metals the current advances in vacuum engineering, electric and radio engineering, radioelectronics, nuclear engineering and conquest of outer space would have been inconceivable. Ultrahigh purity of the metals is a vital factor, Card 1/2

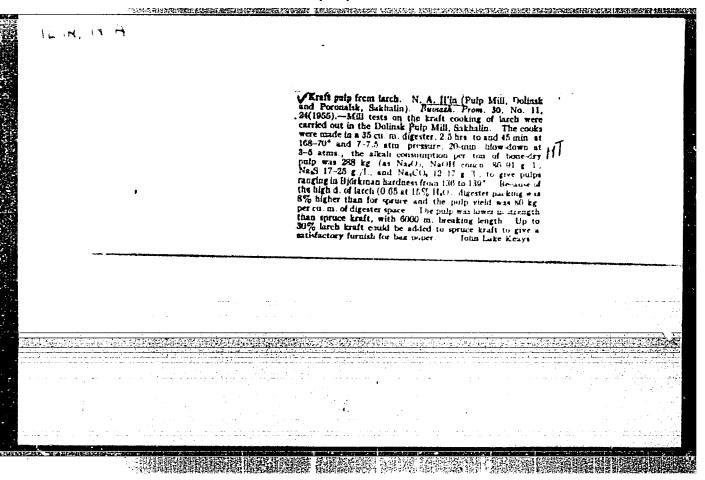
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it cannot be accomplished with the classical methods of metallurgy. Hence, the effective industrial-scale technique at present is electron-beam melting. It is is in utilizing the conversion of the kinetic energy of electrons, freely flyin a vacuum at dizzying velocities, to heat energy when they impinge on metal. It is melting in an electron-beam furnace is performed at a vacuum with a residual issure of 10-1-10-5 mm Hg. During the melting and overheating of the metal, its is and metals with higher vapor pressure volatilize from it, thus yielding a functurally homongeneous, purer metal consisting of two or three or several crystals. The research has shown that vacuum rolling as well as rolling in a inert-gas is sosphere preserves the purity of the metals thus melted during their plastic deforming. The Pavilion also contains exhibits of products fabricated from refractory is rare metals obtained in vacuum-induction and electric-arc furnaces. Orig. art.  3. CODE: 10-1-13/1-13/1-20/1-20/1-20/1-20/1-20/1-20/1-20/1-20		6005770						<b>ع</b>	2
cosphere preserves the purity of the metals thus melted during their plastic detoim- tion. The Pavilion also contains exhibits of products fabricated from refractory is rare metals obtained in vacuum-induction and electric-arc furnaces. Orig. art.	ost effectorsists in a vertal melt ressure on sees and tructural	tive indust n utilizing accum at di ing in an e of 10 <sup>-1</sup> -10 <sup>-5</sup> metals with thy homongen	rial-scale the converging vel lectron-be mm Hg. Du higher vergeous, pure	rechnique resion of t ocities, t am furnace ring the m apor pressu er metal co	the kinetic entropy of the history o	nergy of e y when the d at a vac werheating as from it, two or thr	lectrons, y impinge num with the thus yie cas or see	freely on meta a residumetal, it alding a veral cry	fly- l. al s
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<del>(k) IJ.(c,</del> . (6172 . (777 . (777 . 777 ACC NR: AP6023864 SOURCE CODE: UR/0403/66/000/007/0013/0013 JG/DJ 10 AUTHOR: Il'in, N. (Metallurgical engineer) ORG: none TITLE: Oxidation-free pumping of light metals SOURCE: VDNKH SSSR. Informatsionnyy byulleten', no. 7, 1966, 13 TOPIC TACS: aluminum, aluminum alloy, magnesium, magnesium alloy, alloy pumping, magnetic pumping, liquid metal pumping, liquid metal pump/ EN-5M liquid metal pump | ABSTRACT: The EN-5M magnetic pump/for pumping, conveying, and pouring liquid aluminum magnesium, and their alloys has been developed and built at the Riga Central Design 2/ and Planning Department of Mechanization and Automation and has been put into operation at numerous plants. During conveying and casting, the liquid metal is protected from contact with air and, therefore, ingots and cast parts have an impurity content 85% lower than that of conventionally cast ingots and parts. The EN-5M pump has a capacity of 7.9 m3/hr and a pressure of 2 kg/cm2. It operates at temperatures up to 750C. Orig. art. has: 1 figure. 13 / SUBM DATE: none/ ATD PRESS: 5042 SUB CODE: Card 1/1/1/2019



ILII	<u>L. H.A</u>	
	Sulfate larch pulp. Bum.prom.31 no.3:25 Mr 156.	(MIRA 9:7)
	1.Starshiy inshener Glavsakhalibumproma. (Weedpulp industry) (Larch)	
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IL'IN, N.A.; SENGEYEVA, Ye.S.; KONOVAL'CHUK, M.Ya., tekhnik

System for a defectless production of goods. Tekst. prom. 25 no.5:4-6 My '65. (MIRA 18:5)

- 1. Direktor Bryanskogo kamvol'nogo kombinata (for Il'in).
- 2. Nachal'nik otdela truda i zarabotnoy platy Bryanskogo kamvol'nogo kombinata (for Sergeyeva).

PSONE CONTROL TO THE PROPERTY OF THE PROPERTY

### IL'IN. N.A.

Experience of the Komintern Factory. Tekst. prom. 18 no. 7:55-56
J1 '58. (MIRA 11:7)

1. Direktor fabriki imeni Kominterna.
(B:yanak Province--Textile industry)

IL'IN, Hikolay Aleksandrovich; ARRAMOV, A.L., red.; MEMESHKINA, L.I., tekhn.red.

[Cooking of larch pulp] Varks tselliuloxy is listvennitsy.
IUshno-Sekhalinsk, Mauchno-tekhn.ob-vo bumashnoi i derevoobrabatyvaiushchei promyshl., 1959. 38 p.

(Woodpulp) (Lerch)

16'IN, N.A.

SMORODINTSEV, A. A.; CHALKINA, O. M.; BUROV, S. A.; ILYIN, N. A.

Evaluation of the epidemiological effectiveness of live influensa vaccine during the type A2 and B epidemics of 1959. J. hyg. epidem., Praha 5 no.1:60-68 161.

1. Department of Virology, Institute of Experimental Medicine of the Academy of Medical Sciences of the U.S.S.R., Leningrad.

(INFLUENZA immunol)

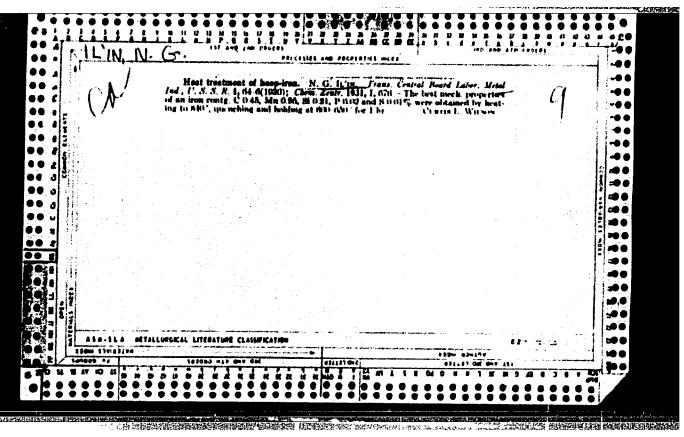
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SMCRODINTSEV, A.A.; CHALKINA, O.M.; BUROV, S.A.; IL'IN, H.A.

Increasing the immunogenic activity of a live vaccine against influensa by triple immunisation of susceptible people. Vop. virus. 7 no.6:683-688 N-D 162. (MIRA 16:4)

1. Institut eksperimental noy meditainy AMN SSSR, Leningrad. (INFLUENZA\_\_PREVERTIVE INCCULATION)

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IL'IH. H.Q.; MATTUSHIH, R.W.; KHAKIMOV, M.G.; PETROVA, Ye.A., redaktor; TROFIMOV, A.V., tekhnicheskiy redaktor

[Water flushing in oil well drilling] Opyt bureniia skvashin s promyvkoi vodoi. Moskva, Gos. nauchno-tekhnicheskoe izd-vo neftianoi i gorno-toplivnoi lit-ry, 1954. 23 p. (MIRA 8:3) (Oil well drilling)

APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000518430009-1"

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AID P - 554

Subject

: USSR/Mining

Card 1/1

Pub. 78 - 20/29

Author

: Il'in, N. G.

Title

Our experience in the training of drillers brigades

in rapid drilling methods

Periodical

: Neft. Khoz., v. 32, #7, 78-82, J1 1954

Abstract

Description of the organization in practical training of technicians and skilled workers at various oil fields, particularly the "Tuymazburneft" (Tuymazy oil field), and analysis of the results of training during 1952 and 1953 with consequent recommendations for fur-

ther improvements in drilling work.

Institution:

TsIMTneft (Central Scientific Research Institute for

Mechanization and Labor Organization in the Petroleum

Industry)

Submitted

: No date

93-4-2/20

AUTHOR:

Il'in, N.G.

TITLE:

Should Drill Pipe with Welded Joints be Used as Casing (O tselesoobraznosti primeneniya dlya krepleniya skvazhin buril'nykh trub s privarennymi poluzamkami).

PERIODICAL:

Neftyanoye Khozyaystvo, 1957, Nr 4, pp. 5-6 (USSR)

ABSTRACT:

In oil drilling large quantities of metal are used (at a considerable cost to the driller) for casing and drill pipe. The author argues that for the sake of economy, in turbodrilling one should use welded-joint drill pipe, which could be left in the bore hole and used as casing. The Tuymazyburneft Trust reduced casing consumption from 53.6 in 1951, to 48.8 kg/m in 1955, that of drilling pipe from 10 kg/m to 8.8 kg/m. Its total 1955 metal consumption for casing was 19,830 tons, for drilling pipe 3,567 tons. The expansion of turbodrilling called for the production of drill pipe with a uniform inside diameter along its entire length and in the joints. Some ten years ago, engineer L.G. Alekhin proposed, in view of the uniformity of this internal diameter, that drill pipe be used

Card 1/2

93-4-2/20

Should Drill Pipe with Welded Joints be Used as Casing. (Contd).

as casing. His idea failed to find wider application, because the special drill pipe which had been designed for turbodrilling proved inadequate, since the segments had joints welded onto their ends. Practical experience proved that this type of drilling pipe was not very strong and that only one or two bore holes could be efficiently drilled, with breaks and other failures occurring during subsequent operations. Therefore, in 1956 production of this type of drilling pipe was discontinued. The author states that considerable savings in metal, time, and transportation costs could be realized by leaving the drill pipe used for drilling a single bore hole in the well and making it serve as well casing after withdrawal of the drilling tool (turbodrill). The Soviet Ministry of Petroleum is urged, therefore, to take steps making the above-mentioned drill pipe with welded joints again available to drillers.

Card 2/2

AVAILABLE: Library of Congress.

4,	Photograph, p. 78.	(VVF, No 1,	1959)	NOT FOR PUBLICATION	
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VLADIMIROV, K.A.; GAYVORONSKIY, A.A.; YUZBASHEV, G.S.; BAYKOV, A.M.; SHANOVICH, L.P.; LOGVINOV, I.I.; IL'IN, N.G.; SAPIULLIN, M.N.

Effect of a cement ring on the capacity of casing strings to resist collapsing loads. Neft. khoz. 42 no.6:19-24 Je \*64. (MIRA 17:8)

GUMEROV, R.Kh.; BUKHTEYEV, P.P.; SPIVAK, A.I.; IL'IN, N.G.

Analyzing methods for using drilling lines whose length is greater than that of the line string-up in enterorises of the Tuymazy Oil Well Drilling Trust. Burenie no.2:35-37 '65.

(MRA 18:5)

1. Trest "Tuymazaburneft'" i Ufimskiy neftyanoy institut.

了,我们也是这种的最级的最后的最级的数据的数据的数据,是是是如果的现在分词,但是是是一个人,我们还是这个人的,我们也是这种的最级的最级的。

IL'IN, Nikolay Grigor'yevich; USPENSKIY, N.M., red.; KOROLEV, A.V., tekhn. red.

[Infrared rays] Infrakrasnye luchi. Moskva, Izd-vo DOSAAF, 1961. 93 p. (MIRA 14:12) (Infrared rays) (Military engineering)

IL'IN; Nikolay Grigor'yevich; RYABKOV, Valentin Pedorovich; GRIGOR'YEVA, A.I., red.; MIKHLINA, L.T., tekhn. red.

> [Radar in antiaircraft defense] Radiolokatsionnye sred-stva protivovozdushnoi oborony. Hoskva, Izd-vo DOSAAF, 1962. 146 p. (MIRA 16:4)

一型科學(GEOTAM TEACHER TO A SECTION TO A SECTI

(Radar)

Monthly Index Russian. accessions Vol. 16 No. 4.

16 /N

USSR / Farm Animals. Small Hornod Stocki

Abs Jour: Rof Zhur-Biol., No 23, 1968, 105647.

: Il'yin, N. I., Isakin, M. P. Not givon. Author

Inst

: Experience in the Organization of Fine-wool Titlo

Shoop Brooding in Transbaikalia.

Orig Pub: Ovtsovodstvo, 1958, No 3, 8-16.

Abstract: In the course of different years, the rems of

the Fine-wool and Prococo broads were brought into the Sovkhoz imoni Karl Marx of the Chitinskaya Oblast. The hybrids derived from absorption crossbroading with Coarse-wool ewes and the rams themselves were poorly acclimatized and had a poor productivity. During the last years, the rams of the Greenyy breed were imported, and mated to ewes of the Altay origin for a single

BOROVSKIY, I.B., IL'IN, N.I., LOSEVA, Ye. L.

Investigating diffusion in ordered solid solutions. Truly Inst.
met. no.6:77-80 '60.
(Alloys--Metallography) (Diffusion)

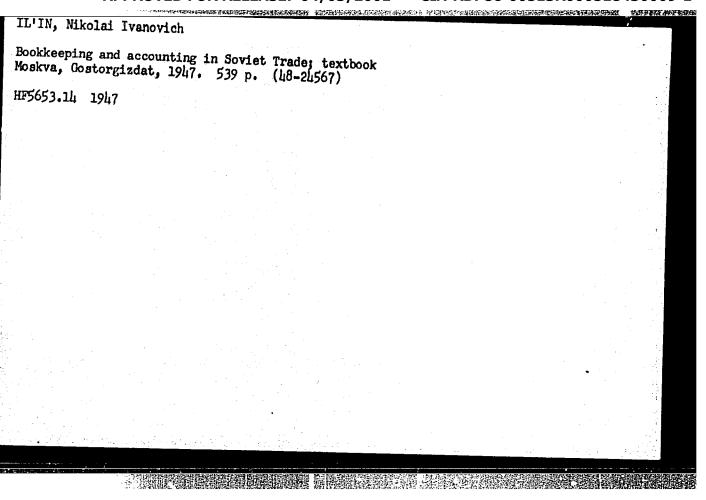
(Alloys--Metallography)

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IL'IN, Nikolai Ivanovich.

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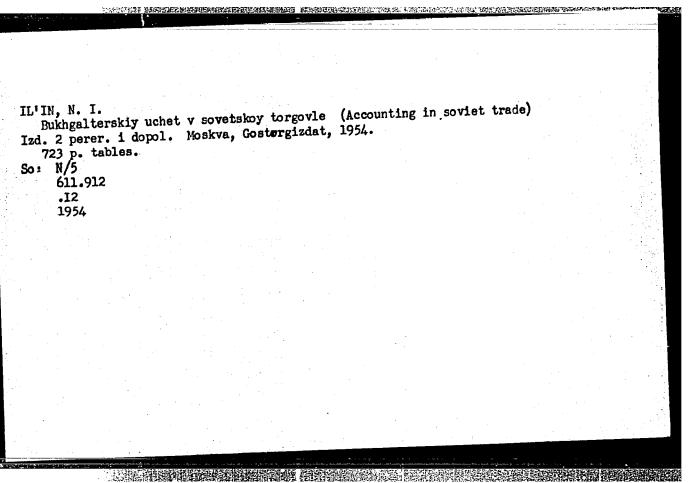
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Bookkeeping and accounting in Soviet trade; textbook. Collection of problems Moskva, Gostorgizdat, 1949. 221 p. (48-24567)

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IL'IN, Eikelay Ivanevich.

[Acceunting in Seviet commerce] Bukhalterskii uchet v sevetskei tergevie. Isd.2., perer. Meskva, Gestergisdat, 1956. 448 p. (Acceunting)

(Acceunting)

IL'IN, Nikolay Ivanovich Name:

Bookkeeping calculation in Soviet trade Dissertation:

> Doc Economic Sci Degree:

[not indicated] Affiliation:

30 Nov 56, Council of Moscow Inst of National Economy imeni Plekhanov Defense Date, Place:

9 Jul 57 Certification Date:

> BMV0 18/57 Source:

# IL'IN, N. [I.] For a unified system of accounting in conmerce. Sov.torg. no.9:18-24 S '57. (Accounting)

For the intr methodology	oduction of a in Soviet trad (BussiaCor	uniform account p le. Bukhg. uchet l mmerceAccounting	5 no.2:12-18	7 '58. (NIBA 1	1:3)
	en e				

IL'IN, N.I.; SVITICH, S.S.; SOKOLOV, V.D.; LYUDSKOV, B.P., red.;
BABICHEVA, V.V., tekhn.red.

[Accounting in enterprises and organisations of state commerce]
Bukhgalterskii uchet v predpriiatiiakh i organisatsiiakh gosudarstvennoi torgovli. Moskva, Gos.isd-vo torg.lit-ry, 1960.
(719 p.
(Accounting) (Russia--Commerce)

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(Hydrodynamics)

# VOLAROVICH, M.P.; IL'IN, N.I.; CHURAYEV, N.V. Radioactive-tracer techniques used in determining the water flow rate in porous media. Koll.zhur. 23 no.5:524-527 S-0 (MIRA 14:9) 1. Kalininskiy torfyanoy institut. (Hydraulics) (Porous materials)

VOIAROVICH, M.P., doktor fiz. matem.nauk, prof. IL'IN, N.I., inzh.;
CHURAYEV, N.V., kand.tekhn.nauk, dotsent

Processes of water movement in draining upper deposits. Torf.
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(Peat)
(Radioisotopes—Industrial applications)

VOLAROVICH, M.P., doktor fiziko-matem. nauk; IL'IN, M.I., inzh.;
CHURAYEV, N.V., kand. tekhn. nauk

Investigating water translocation in peat layers by the method of radioactive tracers. Trudy VNIIGiM 38:116-131 '62.

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1. Kalinskiy torfyanoy institut, Moskva.

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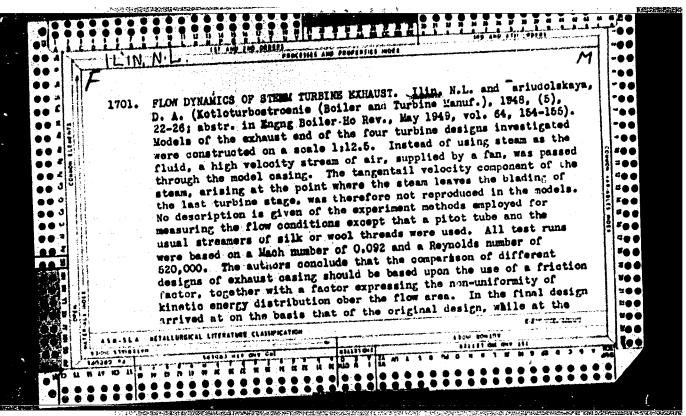
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GAMAY:NOV, N.I.; IL'IN, N.I.; CHURAYEV, N.V.

Studying the water and heat regime of the upper layers of a peat bog. Trudy Kal. torf. inst. no.13:64-78 163.

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ZOTOV, Boris Sergeyevich; LL'IN. Hikolay Mikhaylovich; SHUTTI, L.P.,
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[Blectric equipment of automobiles and tractors] Blektrooborudovanie
avtomobile1 i traktorov. Moskva, Hauchno-tekhn. izd-vo avtotransp.
lit-ry, 1956. 254 p.

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IL'IN, Nikolay Mikhaylovich, PROTASOV, Petr Pavlovich,; KOMEV, B.F., red.;

[Fuel systems for automobile and tractor diesel engines] Sistemy pitaniia avtomobil'nykh i traktornykh dvigatelei. Moskva, Nauchnotekhn. izd-vo avtotransp. lit-ry, 1958. 155 p. (MIRA 11:10) (Diesel engines)

。 一种,我们就是一种,我们们就是一种,我们就是一种,我们也不是一种,我们就是一种,我们就是一种,我们就是一种,我们就是一种,我们就是一种的人,我们就是一种的人,我

IL'IN, Nikolay Mikhaylovich; NESTEROV, R.A., red.; GALAKTIONOVA, Ye.N., tekhn.red.

[Electric equipment of motor vehicles] Elektrooborudovenie avtomobilei. Moskva, Nauchno-tekhn.izd-vo M-va avtomobil\*nogo transporta i shosseinykh dorog RSFSR, 1959. 263 p. (MIRA 13:1) (Motor vehicles--Electric equipment)

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[Electric equipment for motor vehicles] Elektrooborudovanie avtomobilei. 1zd.2., perer. i dop. Moskva, Avtotransizdat, 1962. 287 p.
(MIRA 15:5)

(Motor vehicles-Electric equipment)

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·····一下,共同分析的建筑的国际的全部的系统,在这种主义的主义的主义的主义的主义的主义的主义。 (古代中国的主义和人名英格兰人姓氏克里特的变体,这种主义的主义的主义的主义的主义的主义的主义的主义的主义的主义的主义的主义

SHVARTS, Solomon Mikhaylovich; IL'IN, N.M., red.; BODANOVA, A.P., tekhn. red.

[Laboratory practical work on the electric equipment of motor vehicles] Laboratornyi praktikum po elektrosborudovaniiu avtomobilei. Izd.2. ispr. i dop. Moskva, Avtotransizdat, 1962. 130 p. (MIRA 15:7)

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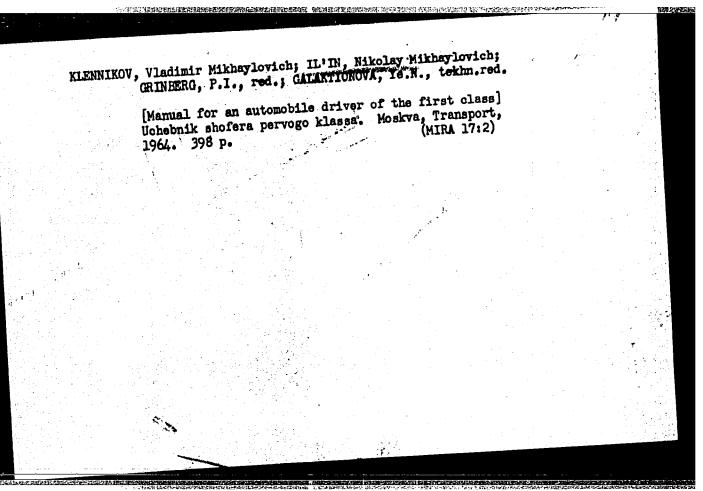
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vansport, 1965. 263 p.

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Phenology of blood-sucking mosquitoes near Kaluga. Med.paraz. 1 paraz. bol. 28 no.4:487-488 Jl-Ag 159. (MIRA 12:12)

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1. G. L. ABRAMOV, N. P. IL'IN

2. USSR (600)

4. Bolts and Nuts

7. Abramov-design automatic mut-threading machine. Sel(khozmashina no. 1. 1953.

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II'IN. N.P.

**K-8** 

USSR/Optics - X-Rays

: Referat Zhur - Fizika, No 5, 1957, 13150

Author

Abs Jour

: Borovskiy, I.B., Il'in, W.P.

Inst

: New Method for X-ray Spectral Investigation of the Chemical

Title

Composition in a Microvolume of Alloy.

Orig Pub

Issledovaniya po zharoprochnune splavam. M., AN SSSR, 1956,

25-32

Abstract

A method has been developed that makes possible quantitatiwe analysis of the chemical composition of a substance in volumes on the order of 10 cubic microns. In a setup prodiced by the authors, it is possible to make an analysis for elements from 26 Fe to 42 Mo and from 72 Hf to 92 U. The source of radiation is a micro-focus X-ray tube, operating at 30 -- 50 kv and 0.1 -- 1.0 microamperes. The electron beam, obtained from a corresponding EM-4 electronograph apparatus, is focused on the investigated polished

Card 1/3

K-8

USSR/Optics - X-Rays

USSR/Optics - X-Rays

APPROVED FOR RELEASE: 04/03/2001 13150IA-RDP86-00513R00051843000

Abs Jour : Referat Zhur - Fizika, 16/03/2001

section. The use of rather large specific loads became possible, for at very small dimensions of the focusing spot (3microns), the radial heat transfer begins to play a substantial role. This has insured a sufficient radiation intensity. The polished section can be moved in its own plane, making it possible to analyze any point on it under observation in a metallographic microscope, mounted in the setup. The analysis is by means of a short-wave spectrograph with a quartz crystal, bent in a radius of 300 m, using reflection from the (1010) or (1340) planes. The transmission method, described by Du Mond is used, and gives a gain in intensity by 2 -- 3 orders of magnitude over the direct method. The spectrum is registered by a Geiger type counter RM-4 whose rate of count can be determined simultaneously with the scaling instrument PS-64 and from the direct-reading meter of the integrating circuit. In addition, the intensity of the spectrum can be written

Card 2/3

IL'IN, N.P.

K-8

Category : USSR/Optics - X Rays

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 5275

: Borovskiy, I.B., Il'in, N.P.
: Institute of Metallurgy, Academy of Sciences USSR : New Methods for the Investigation of the Chemical Composition in the Author Inst

Micro-Volume of an Alloy. Title

Orig Pub : Dokl. AN SSSR, 1956, 106, No 4, 655-657

Abstract : A new method was developed for investigating the chemical composition on a polished section. An electron beam, focused by magnetic lenses, excites characteristic x-rays in a volume of the section approximately 10 cubic microns in size. The tube voltager is 30-50 kv, the current reaches 1 microampere. The load on the polished-section anode is on the average 1 kw/mm<sup>2</sup>. The intensity is recorded with the aid of the unit of the URS-50-I apparatus to record the intensity curve. To plot the spectrum at a given "point" on the polished section one employs the reverse method with transmitted radiation. The motion of the tube is synchronized with the motion of the counter. The instrument permits also to plot the curve of the veriation of the intensity of a given line

over the polished section, for a fixed position of the tube

: 1/2 Card

K-8

Category : USSR/Optics - I Rays

Abs Jour : Ref Zhur - Fizika, No 2, 1957, No 5275

and counter, by displacing the specimen. Curves are given for the intensity distributions of the Nik 1 and WL 2 lines over the points of the multi-component allow. The analysis of the chemical composition at the "point" can be carried out with a sensitivity of 0.15, tion at the "point" can be carried out with a sensitivity of 0.15, tion at the "point" grams of the element at the "point." The corresponding to 10-13 grams of the element at the "point." The relative accuracy of the quantitative determinations is 2 -- 5%.

card : 2/2

Il'in N.A.

137-58-2-4432

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 2, p 305 (USSR)

Borovskiy, I.B., Deyev, A.N., Il'in, N.P.

Investigating the Chemical Composition of an Alloy Microvolume AUTHORS: TITLE:

by X-ray Spectroscopy (Rentgeno-spektral'nyy metod issledo-

vaniya khimicheskogo sostava v mikroob"yeme splava)

Tr. In-ta metallurgii AN SSSR, 1957, Nr 2, pp 181-187 PERIODICAL:

ABSTRACT:

A description is given of a special RSASh-2 X-ray machine which makes it possible to determine the chemical composition of an alloy on volumes of the order of magnitude of a few cubic microns for the elements ranging in atomic number from 26 (Fe) to 45 (Rh) and from 72 (Hf) to 92 (V). From the continuous travel of the alloy microsection under electron-beam bombardment and from the simultaneous recording being made of the intensity of the characteristic-spectrum line for the element under study it is possible to determine the element's distribution in the chosen direction on the microsection. The machine was used to study the diffusion layer of Cu-Zn. M.N.

Card 1/1

1. Alloys Chemical properties 2. I-ray spectroscopy Applications

TL'IN, N.P.

AUTHOR:

Borovskiy, I.B., Il'in, N.P., Loseva, L.Ye.,

48-10-13/20

Marchukova, I.D., Deyev, A.N.

TITLE:

X-Ray Spectral Investigations of the Chemical Composition in Microvolumes of Alloys (Rentgenospektral'nyye issledovaniya

khimicheskogo sostava v mikroob yemakh splavov)

PERIODICAL:

Izvestiya AN SSSR Seriya Fizicheskaya, 1957, Vol. 21, Nr 10,

pp.1415-1423 (USSR)

ABSTRACT:

The method described here was at the same time developed by Kasten in France (since 1951) and also in the USSR. The characteristic feature of the method is the following: The metallographical microsection surface to be investigated is inserted into the special . X-ray tube instead of the anode. The anode "mirror" is the ground surface the microstructure of which can be observed in the metal microscope which is mounted in the tube. By means of microscrews the sample can be displaced in the ancde plane. At the Institute for Metallurgy the RSASh-2 unit, an X-ray spectrograph for the analysis of microsection surface elements of from Fe<sup>20</sup> to Mo<sup>42</sup> and from H:72 to U92 was worked out. Besides, the model for the RSASh-ZD unit is already completed, by means of which it is possible to investi-gate the elements from Fe<sup>26</sup> up to and including Mg<sup>12</sup>. The results

Card 1/2

X-Ray Spectral Investigations of the Chemical Composition in Microvolumes of Alloys

obtained by several investigations carried out by means of this device are discussed here. It is shown that the following problems can be solved quickly and reliably by means of this method: Analysis of the phase composition of complexly alloyed alloys, investigation of the degree of de-liquation in alloys, investigation of the order of distribution of alloy additions and their re-distribution during aging, deformation, heat treatment, investigation of diffusion— and other intermediate layers, of granular boundaries, and of the processes taking place in them. There are 6 figures and 2 tables.

ASSOCIATION: Laboratory for Methods of Physical Research at the Institute for

Metallurgy imeni A.A.Baykov AS USSR (Laboratoriya fizicheskikh metodov issledovaniya instituta metallurgi im.A.A.Baykova AN SSSR)

AVAILABLE: Library of Congress

Card 2/2

#### "APPROVED FOR RELEASE: 04/03/2001 CIA-RDP86-00513R000518430009-1

IL'IN N.P.

AUTHORS:

Borovskiy, I. B., Professor, Doctor of Physical and 32-10-25/32

Mathematical Sciences, Il'in, N. r., Candidate of

Technical Sciences

TITLE:

The Method of Radiospectroscopic Investigation of Local Chemical Composition (Rentgenospektral nyy metod issledovaniya

lokal'nogo khimicheskogo sostava)

PERIODICAL:

Zavodskaya Laboratoriya, 1957, Vol 23, Nr 10,

pp 1234-1242 (USSR)

ABSTRACT:

In the introduction the development of this method is described the purpose of which, in its newest form, is to carry out radiospectral investigations with respect to the content of various elements at various points of the sample and / or in a rew of successive points while the object table (together with the sample) is shifted uniformly under the

electron beam. A certain line of the element to be investigated

is automatically recorded on the diagram of the selfrecording potentiometer, and possible modifications in the

concentration of the element are on this occasion made apparent. By this method and with the help of the corresponding apparatus, the analyses of minerals, slags, and ores, which contain the elements of from magnesium (12) to uranium (92)

Card 1/A

32-10-25/32

The Method of Radiospectroscopic Investigation of Local · Chemical Composition

are investigated. Two systems used for this purpose are described: "PCAU -2" which is destined to be used for a range from 0.7 to 1.0 A (corresponding to the atoms Nr 26-42 according to the k-series, and 72-92 according to the L-series), and the second system "PCAW -3A", which is destined to be used for the so-called "vacuum domain" of the X-ray spectrum (1.5 - 10 %). The first system consists of the following parts: a microfocus X-ray tube, an X-ray spectrograph, a feeder block, and a recording block, which are described in detail. In the chapter "Analysis of uniformity" it is said that it is the aim of the method to determine the uniformity of the distribution of one of the elements without having to investigate the entire microstructure. In the chapter "Analysis of Phase Composition" an example of determining concentration in a nickel solution with microcomponents is described, into which rhenium was additionally introduced as a component. This resulted in the sorting out of a new phase which has a rich content of rhenion, tungsten, and molybdenum. In the chapter: "Analysis of welded or soldered Seams" it is said that, when copper is melted on to cold steel, a layer of 15-40 m is formed, which can

Card 2/4

The Method of Radiospectroscopic Investigation of Local 32-10-25/32 Chemical Composition

be determined metallographically. When using the system "PCAW -2" it was possible for the first time to investigate the formation of this layer, which is connected with the separation of certain elements. In the chapter "Investigation of diffusion Layers" the diffusion properties of the metals are described on the basis of two samples: copper+nickel and copper+zinc. In the first case it was possible, by employing the radiospectral method, to find out that the components formed an uninterrupted aeries of solid solutions, on which occasion an uninterrupted modification of concentration was found to take place on the nickel line; in the second case two phases of constant composition were formed in the diffusion layer, and on the transition boundary to the pure metal a sudden decrease of the failing component was found to take place. In the conclusion it is said that the following problems can be solved by this method: The phase analysis of multicomponent alloys; the investigation of the degree of homogeneity of the solutions; investigation of the topographical distribution of the alloying admixtures and their transformation in the

Card 3/4